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Listing of Claims:

Claims 1 and 2 (Canceled).

Claim 3. (currently amended) A 3D display apparatus according to claim ~~14~~ 20, wherein said second array is movable ~~for adjusting said first distance~~ and said display set of light transmissive pixels is stationary.

Claim 4. (cancelled)

Claim 5. (previously presented) A 3D display according to claim ~~14~~, 20 wherein said second array comprises points and wherein said apparatus further comprises means for controlling the position of said points on said second array.

Claim 6. (previously presented) A 3D display according to claim 5, wherein said means for controlling the position of said points controls said second distance.

Claim 7. (currently amended) A 3D display according to claim 5, wherein said means for controlling the position of said points controls the position of the reproduced object in a direction parallel to the surface of the second array.

Claim 8. (currently amended) A 3D display apparatus according to claim ~~1~~ 19, further comprising means for controlling said ~~second~~ first distance.

Claim 9. (currently amended) A 3D display apparatus according to claim ~~8~~ 20, further comprising sensor means for detecting the position of

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the viewer with respect to said ~~display apparatus~~ set of light transmissive pixels .

Claim 10. (currently amended) A 3D display apparatus according to claim ~~14~~ 20, wherein said ~~display~~ set of light transmissive pixels comprises ~~is~~ a flat surface display.

Claim 11. (currently amended) A 3D display apparatus according to claim 5 20, wherein said second array comprises a plate and wherein each point of said second array is an aperture of said plate.

Claim 12. (currently amended) A 3D display apparatus according to claim ~~14~~ 20, wherein said set of light transmissive pixels ~~display is~~ comprises a liquid crystal display (LCD).

Claim 13. (currently amended) A 3D display apparatus according to claim 5 20, wherein ~~each point of said~~ second array comprises a plurality of lenses ~~is a lens~~.

Claim 14. (cancelled)

Claim 15. (cancelled)

Claim 16. (currently amended) The apparatus of claim ~~14~~ 19 wherein said ~~display~~ set of light transmissive pixels comprises a flat surface display.

Claim 17 (cancelled).

Claim 18. (cancelled)

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Claim 19 (new). A 3-D display apparatus for displaying a 3-D image of an object to a viewer, the apparatus comprising:

an image capture unit comprising;

a set of image detecting elements responsive to light from said object to provide an image signal representing said object;

an image capture array arranged to pass there-through light from said object to said set of image detecting elements;

said image capture array spaced from said set of image detecting elements by a first distance;

a display unit comprising:

a light source;

a set of light transmissive pixels corresponding to said set of light responsive detecting elements and responsive to said image signal to pass light from said light source there-through;

an image display array corresponding to said image capture array and arranged to pass there-through light passed through said set of light transmissive pixels to provide a 3-D reproduced image of said object to a viewer,

said image display spaced from said set of light transmissive pixels by a second distance;

the position of said 3-D reproduced image of said object being the same as the position of said object when said first distance is equal to said second distance;

user operable control for adjusting the distance of said 3-D reproduced object from said viewer by adjusting said second distance.

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Claim 20 (new) A 3-D display apparatus for displaying an image of an object to a viewer comprising:

a set of light transmissive pixels corresponding to a set of light responsive detecting elements of an image capture device,

a second array of apertures corresponding to a first array of apertures of said image capture device; the second array and the set of light transmitting pixels spaced apart by a second distance;

said first array of apertures and said light responsive detecting elements spaced apart by a first distance;

a light source arranged with respect to said set of light transmitting pixels to pass light first through said set of light transmitting pixels and then through said second array to provide a 3-D reproduced image of said object to a viewer;

the position of said 3-D reproduced object being the same as the position of said object when said first distance is equal to said second distance;

a user operable control for adjusting the distance of said 3-D reproduced object from said viewer by adjusting said second distance.